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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,606	03/31/2004	Richard A. Johnson	SIL.0006US	5455
21906	7590	06/01/2007	EXAMINER	
TROP PRUNER & HU, PC			LE, NHAN T	
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HOUSTON, TX 77057-2631			PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/814,606	Applicant(s) JOHNSON, RICHARD A.	
	Examiner Nhan T. Le	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 2-9 is/are objected to.
- 8) ☒ Claim(s) 10-34 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>01/09/06</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I (Claims 1-34) in the reply filed on 05/11/07 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Wilkinson et al (US 20030199257).

A magnetically differential input circuit to couple a single-ended signal source to a single-ended receiving circuit (see fig. 2, number 251, paragraph 0052) the input circuit comprising: a first terminal (see fig. 2, number 200a, paragraphs 0054-0056) to couple to an output of the single-ended signal source; a second terminal (see fig. 2, number 200b, paragraphs 0057-0060) to couple to a signal return; a third terminal to couple to an output of the single-ended signal source; a first loop (see fig. 2, number 170, paragraph 0062) comprising the first terminal and the second terminal; and a second loop (see fig. 2, number 180, paragraphs 0063-0064) comprising the second terminal and the third terminal.

Allowable Subject Matter

2. Claims 2-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claim 2, the applied reference fails to teach wherein the first loop and the second loop circumscribe substantially equal areas and are arranged so that a first interfering signal induced in the first loop by a source of interference is cancelled by a second interfering signal induced in the second loop by the source of interference as cited in the claim.

As to claim 7, the applied reference fails to teach wherein the first, second and third terminals are substantially collinearly juxtaposed and the second terminal is disposed intermediate between, and substantially equidistant from, the first terminal and the third terminal as cited in the claim.

3. Claims 10-34 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding Claim 10, Posner et al (US 20030064738) teaches spurious radio control circuit for use with feed-forward linear amplifier; Leffel (US 6,255,903) teaches linear power amplifier with configurable feed-forward error correction circuit; Wilkinson et al (US 20030199257) teaches spurious radio control circuit for use with feed-forward linear amplifier. The teaching of these prior arts either combined or alone fails to teach a first conductor coupled to the first terminal and the input node; a second conductor

coupled to the first terminal and the input node, wherein the terminals, circuit nodes and conductors are arranged to form a first loop and a second loop that effect cancellation of an induced interfering voltage at the receiving circuit.

Dependent claims 11-22 are allowable for the same reason.

Regarding Claim 23, Posner et al (US 20030064738) teaches spurious radio control circuit for use with feed-forward linear amplifier; Leffel (US 6,255,903) teaches linear power amplifier with configurable feed-forward error correction circuit; Wilkinson et al (US 20030199257) teaches spurious radio control circuit for use with feed-forward linear amplifier. The teaching of these prior arts either combined or alone fails to teach a fourth terminal coupled to the second input node, wherein the first terminal and the fourth terminal are included in a first loop and wherein the second terminal and the third terminal are included in a second loop that opposes the first loop.

Dependent claims 24-34 are allowable for the same reason.

Conclusion

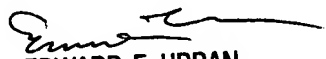
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Le whose telephone number is 571-272-7892. The examiner can normally be reached on 08:00-05:00 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Nhan Le



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